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September 7, 2004

BY ELECTRONIC FILING

Marlene H. Dortch Secretary **Federal Communications Commission** 445 Twelfth Street, S.W. Washington, D.C. 20554

Re:

Ex Parte Notice

Carrier Current Systems, Including Broadband over Power Line Systems; Amendment of Part 15 Regarding New Requirements and Measurement Guidelines for Access Broadband over Power Line Systems (ET Docket No. 04-37)

Dear Ms. Dortch:

Pursuant to 1.1206(b) of the Commission's Rules, this is to notify you that Tom Tormey and Vijay Dhingra of Echelon Corp. ("Echelon") and Glenn B. Manishin and Joseph Price, counsel to Echelon, met on September 2, 2004, with Karen E. Rackely, Alan J. Scrime, Alan Stillwell and Anh Wride, of the Office of Enginering and Technology, to discuss the issues in the above-referenced proceeding. The parties discussed the issues previously raised by Echelon in its written Comments and Reply Comments in this proceeding, including the definition of Access BPL. Also present and supporting the discussion of Echelon's proposed definition of Access BPL was Brett Kilbourne, Director of Regulatory Services & Associate Counsel, United PowerLine Counsel. The attached document, "FCC Access BPL Presentation," was distributed and discussed at the meeting.

KELLEY DRYE & WARREN LLP

Marlene H. Dortch September 7, 2004 Page Two

Pursuant to the Commission's Rules, this notice is being filed electronically through the Commission's Electronic Comment Filing System. If there are any questions concerning this notice, please let me know.

Sincerely,

Glenn B. Manishin W. Joseph Price

Enclosure

cc: Karen E. Rackley, OET

Alan Stillwell, OET Anh Wride, OET

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- Echelon is a networking company that makes an open, standards-based infrastructure called LonWorks
- and to communicate with one another and the Internet LonWorks enables everyday devices to be made "smart"
- Echelon is the leader in networking everyday devices
- Approximately 50,000,000 LonWorks enabled processors shipped, thousands of OEMs
- Authorized network integrators, developers, and educational partners worldwide





Panoramix^{*}

and Enterprise Software Network Management



Development Tools













Transceivers, Controllers, NICs

Power Line & Twisted Pair



Routers, Internet Servers





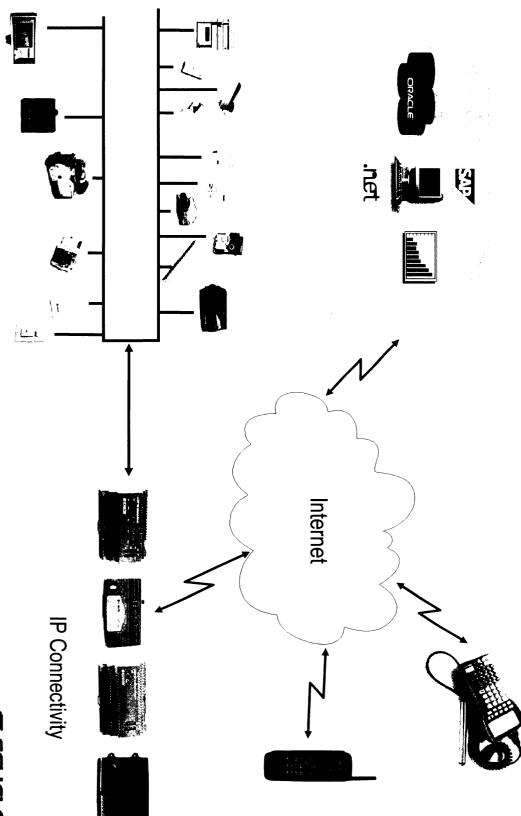




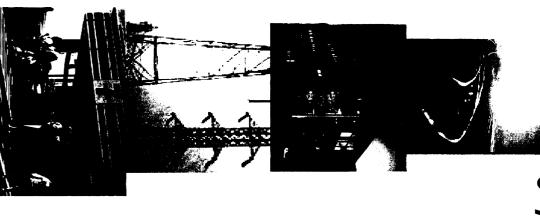




...from the smallest systems to networks that span the globe.







A pioneer in PL Communications for over 12 years

Millions of devices in home automation, utility, applications worldwide commercial building, transportation and industrial

Holder of 38 U.S. patents in PL technology

and Narrow Band transceiver technologies Only company with expertise in Spread Spectrum

Spread Spectrum technology – Dual Frequency Narrow Dual Frequency Narrow Band technology has replaced Band offers significantly more robust signaling

control applications (not for data networking Echelon focuses on PL solutions optimized for applications)



CO CO VO

ANSI 709.2 power line transceiver



Reliable power line technology

Unique dual carrier operation

5kbs data rate, PSK modulation

Patented low-overhead error correction

DSP based noise cancellation and distortion correction

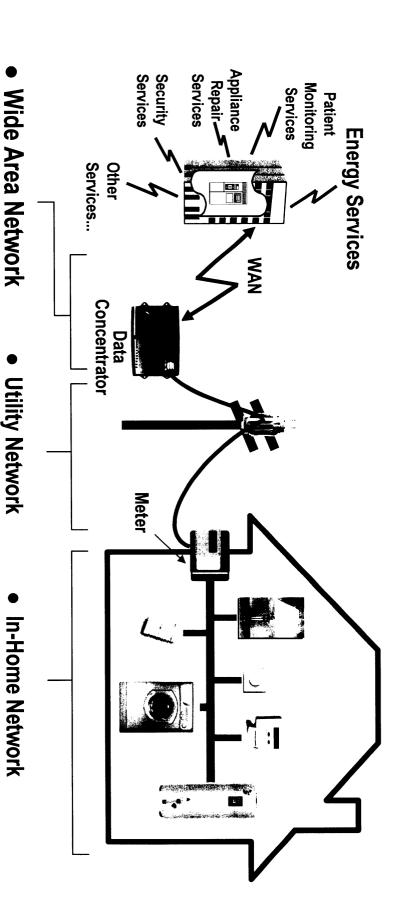
High power amplifier

Worldwide power line operation

Complies with FCC, Industry Canada, Japan MPT, and European CENELEC EN 50065 regulations



this realized with System Architecture





Paging or cell radio

Data concentrators

Meters

White goods

A-band operation

Security system

C-band operation

Lighting, HVAC

Thermostats, switches

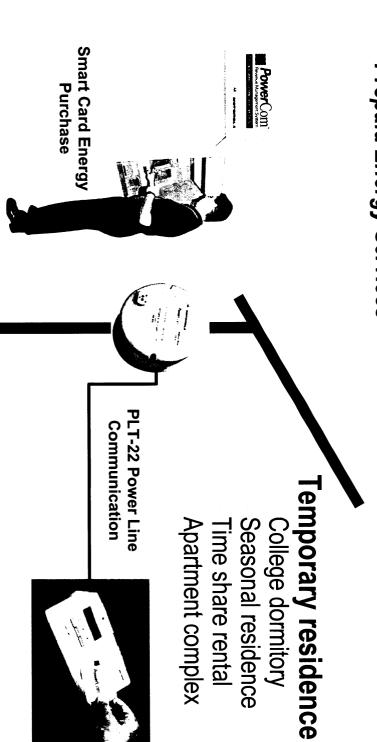
Telephone Line

Network management service





Prepaid Energy Services



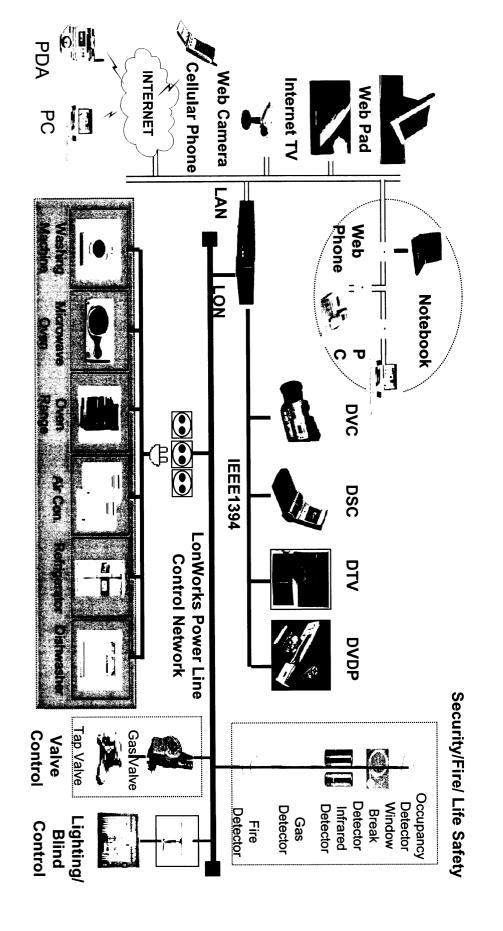
Improved utility management eliminates manual meter reading, no high risk debt

Consumer display shows power remaining on card, consumption history, when to replenish card



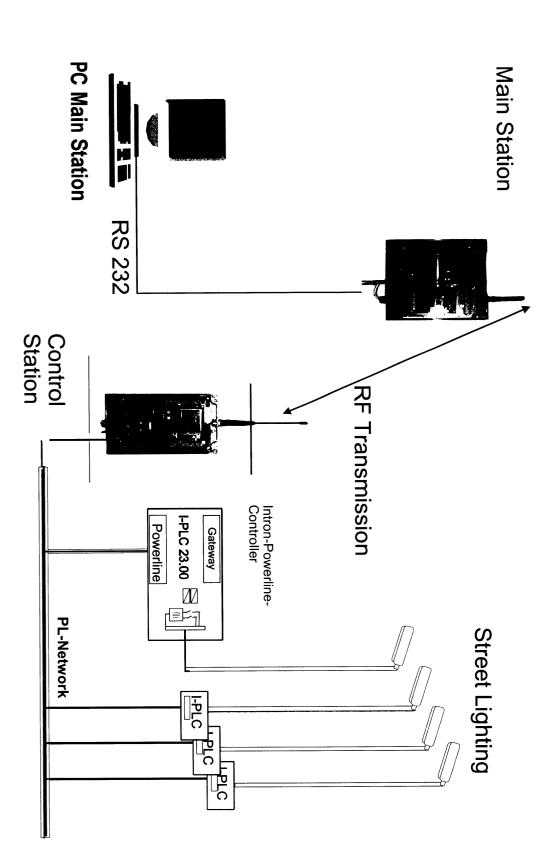


Intelligent home architecture



○ ECHELON:

Seet Galia Contro via power ine



* ECHELON:

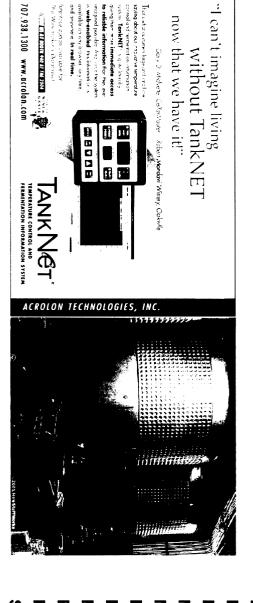
action Technologies Winery Controls

Typical winery contains 15 fermentation tanks, 400 meters of cabling, 30 junction boxes, and 240 wire terminations.

Uses Echelon's PLT-22 Power Line Transceiver to communicate with tank controllers

Signaling uses the same power mains already wired for the tank variable frequency motor drives

Customers save hundreds of installation dollars per



Acacia Vineyard
Abeja Winery
Canoe Ridge Vineyard
Domain Carneros
Duckhorn Wine Company
Dynamite Vineyards
Etude Wines
Beringer Blass Wine Estates
Gainey Vineyard
J. Lohr
Keller Estate

Gainey Vineyard
J. Lohr
Keller Estate
Kenwood Vineyards
Korbel Champagne Cellars
Monterey Wine Company
Mountain Vineyard
Raymond
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Raymond
Robert Mondavi Winery
Rodney Strong
Rutherford Hill
Stags' Leap Winery
Vineyard 29



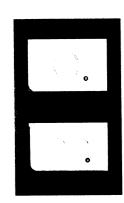






Gas detect and valve controller

Switches

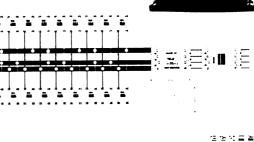












Blocking Filter

AC outlet

0.0

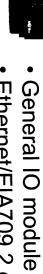
meter reading module







Embedded type module







Proposed Part 15 Rule Change

Section 15.3 is proposed to be amended by adding paragraph (ff) to read as follows:

§15.3 Definitions

(f) Access BPL systems shall incorporate adaptive interference mitigation techniques such as dynamic or remote reduction in power and adjustment in operating frequencies, in order for Access BPL installations to avoid site-specific, localized use of the same spectrum by licensed services. Access BPL systems shall incorporate a shut-down feature to deactivate units found to cause harmful interference.

(ff) Access Broadband over power line (Access BPL): A <u>carrier current system that transmits</u> radio frequency energy by conduction over electric power lines owned, operated, or controlled by an electric service provider. The electric power lines may be aerial (overhead)

- The proposed definition of Access BPL encompasses all carrier current systems, including broadly deployed existing low-speed, low-frequency carrier current systems (X-10, CEBus, LonWorks) that today coexist under current Part 15 rules.
- Adding adaptive mitigation techniques to these devices is both unnecessary and would add so much cost as to force these devices off the



Coned Revise 210.3 (Fr

carrier current systems, as follows: Redefine Access BPL to exclude low-power, low-speed

over electric power lines owned, operated, or controlled by an electric service provider. The electric power lines may be aerial (overhead) or underground. kHz, that transmits radio frequency energy by conduction carrier current system, with an operating frequency of >1705 (ff) Access Broadband over power line (Access BPL): A

(new language <u>underscored</u>).

